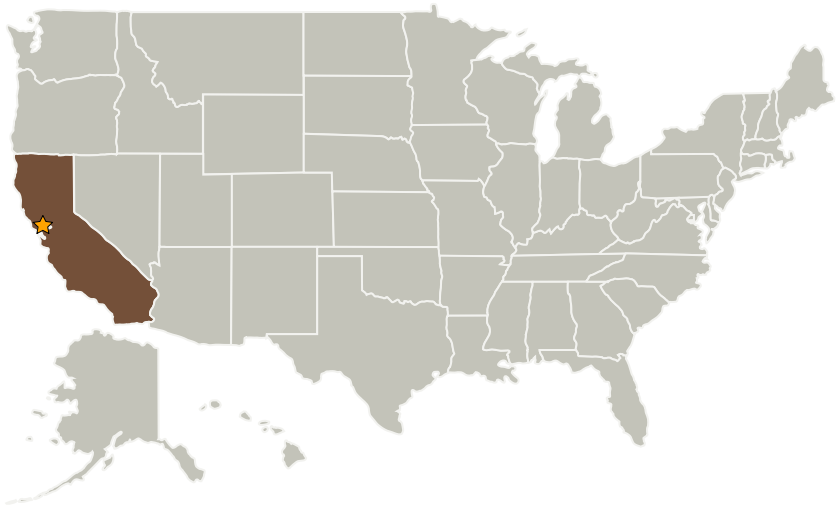
BrahmVE platform for design and test of Large Scale Multi-agent Human-centric Mission Concepts, Phase I

Completed Technology Project (2004 - 2004)

Project Introduction

This Phase I proposal seeks support to extend the BrahmsVE architecture to support a multi-agent human-centric simulation of a hypothetical future ISS which is equipped with interior agents (PSA) and exterior tele-operated agents (Robonaut). An Agent Broker module will be constructed as well as detailed interior and exterior ISS 3D virtual world models containing PSA, Robonaut, human (astronaut-agents) and major subsystems. Input from expert advisors at several NASA centers will be sought to create this macro-level simulation of work practice within a hypothetical future ISS.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
DigitalSpace Corporation	Supporting Organization	Industry	Santa Cruz, California

Primary U.S. Work Locations
California

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Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Bruce F Damer

Technology Areas

Primary:

- TX10 Autonomous Systems
  - TX10.3 Collaboration and Interaction
    - TX10.3.3 Goal and Task Negotiation